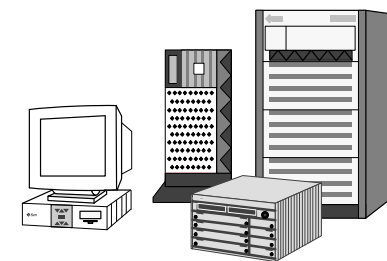


Sun Network and Media Servers

◆ <i>Netra i & Netra j Product Specifications</i>	<i>Page 40</i>
◆ <i>Netra NFS 150 Server Product Specifications</i>	<i>Page 41</i>
◆ <i>Ordering Information – Configured Systems & Upgrades</i>	<i>Page 42</i>
◆ <i>Netra Software & Software Upgrades</i>	<i>Page 44</i>
◆ <i>Configure-to-Order Systems (Netra i 150, NFS 150, 4000, 5000)</i>	<i>Page 45</i>
◆ <i>Netra Option Compatibility & Pricing</i>	<i>Page 54</i>
◆ <i>Sun MediaCenter UltraSPARC Server</i>	<i>Page 61</i>

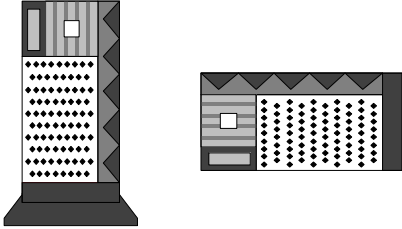
Netra i Internet Server Family

Netra j – The Server for Java Computing



	Netra i 5 Netra j 5	Netra i 140 Netra j 145	Netra i 150	Netra i 170E Netra j 170E	Netra i 2/1200 Netra j 2/1200	Netra i 4000 Netra j 4000	Netra i 5000 Netra j 5000
Packaging	Desktop	Desktop	Tower	Desktop	Desktop	Deskside	Rack
Processor	TurboSPARC	UltraSPARC	UltraSPARC	UltraSPARC	UltraSPARC (1 or 2)	UltraSPARC (up to 14)	UltraSPARC (up to 14)
Clock Speed	170 MHz	143 MHz	167 MHz	167 MHz	200 MHz	167 MHz	167 MHz
Main Memory	32MB – 25 6MB	64 MB – 1 GB	64 MB – 1 GB	64 MB – 1 GB	128MB – 2GB	Configure to Order – 14GB max.	
Storage Type	SCSI–2	10 Mbps Fast/Wide SCSI	20 Mbps Fast/Wide SCSI		10 Mbps Fast/Wide SCSI	20 Mbps Fast/Wide SCSI	
Max. Internal Disk	4.2 GB	4.2 GB	25 GB	4.2 GB	4.2 GB	16.8 GB	189 GB
Total Disk Capacity	122 GB	324 GB	349 GB	324 GB	324GB	324 GB	–
Package Slots	1 SBus (32 bit)	3 SBus (64 bit)	2 SBus (64 bit)	2 SBus (64 bit) 1 dedicated UPA	4 SBus (32 bit)	8 card cage slots can be used for CPU/Memory, I/O, Disk	
HTTP Ops/Sec.	86	188	216	216	N/A	N/A	N/A
Connectivity	10 Mbps Ethernet (10Base–T or AUI)		100 Mbps Ethernet (100Base–T)		10 and 100 Mbps Fast Ethernet (100Base–T or MII)		
Tape Backup	150MB 1/4–inch tape, 5GB 4mm or 8mm tape, 5GB 4mm DAT, 20GB 4mm DAT Auto Loader						
Network Options	SunFastEthernet, Quad Ethernet, ISDN, HSI, FDDI, ATM, and Token Ring						
Netra i Series: Pre–Installed Software <ul style="list-style-type: none">◆ Operating System: Solaris 2.5, optimized for Web serving◆ Security: Solstice FireWall–First! server security software◆ World Wide Web Services: Netscape Enterprise Server, LiveWire Web site mgmt. software◆ Authoring Software: Netscape Navigator Gold authoring software, Java Developer’s Kit, sample Java applets◆ Administration Tools: Graphical Installation and Administration software, Recovery Tool, Backup Tool◆ Networking: TCP/IP, IPX Gateway software◆ Email: POP2/POP3 server, IMAP4 server, SMTP Sendmail v8◆ Remote Access Services: telnet, ftp, anonymous ftp server◆ Internet Connectivity: Asynchronous PPP, Primary/Secondary/Caching DNS Server				Netra j Series: Software (Underlined components are included in the Netra j Enhance-ment Software.) <ul style="list-style-type: none">◆ Network Client Support: <u>JavaStation client and host software, DHCP, Network Information Service (NIS)</u>◆ Back–End Connectivity: <u>OC://WebConnect Gold software for secure access to SNA data and applications, OpenVista IDE 3270/5250/VT220 front–end development software</u>◆ Netra browser–based administration software, <u>Netra j software for JavaStation client and user administration, NIS administration</u>◆ Java and Web Development: <u>Java Workshop, Java Virtual Machine, Netra Contributed Tools Library, Java Developers Kit, Netscape LiveWire online development and Web site management, Netscape Navigator Gold authoring software</u>◆ Security: FireWall–First! security software, WebStalker–First intrusion detection software, InterScan VirusWall virus detection software◆ Web and Email: Netscape Enterprise Server, Mail server services and protocols◆ Network Connectivity: Primary/secondary/caching DNS server, IPX Gateway, Asynch. PPP, Telnet, FTP, Anonymous FTP Server, TCP/IP support for all client types.			

Netra NFS 150 Server

Product Specifications	 <p style="text-align: center;">Netra NFS 150 Server</p>
Packaging	Tower or Rack Ready (four servers per standard 19-inch rack) – 110V or 240V
Processor	167 MHz UltraSPARC uniprocessor
Cache Size	16KB on chip, 512KB external cache
Memory	64MB – 512MB ECC
Internal Disks	1-inch 7200 RPM Base: One 2.1GB system disk, four 2.1GB data disks Maximum: One 2.1GB system disk; twelve 2.1GB data disks (25.2GB)
External Disk Capacity	External drives not supported with Netra NFS SmartServe 1.0. SPARCstorage Array Model 112 supported with SmartServe 1.1.
Networks	Base: One on-board 10BASE-T Ethernet and one 10/100BASE-T Fast Ethernet Maximum: Nine 10BASE-T, two 100BASE-T, two FDDI, or two Token Ring interfaces
I/O Slots	3 SBus slots: one Fast/Wide SCSI card for 4–12 data disks; one 100BASE-T Fast Ethernet, one available slot
Monitor, TGX	Optional – not recommended
System Software	Netra NFS SmartServe 1.0 (based on a subset of the Solaris 2.5 operating environment).
Netra NFS SmartServe 1.1 Features	NFS v2 and v3, PC-NFS Authentication Server, DNS server or client, NIS client, local server, single server Solstice Backup (pre-enabled), WebNFS (Nfs file access over WWW)
Internal Media, Backup	SunCD 4Plus and floppy drive standard. 4mm DDS-2 tape optional and factory-installable.
External Tape Backup	SPARCstorage Library Model 8/140, 140GB optional
Ease-of-Management Features	Preinstalled software, Web browser-based (HTML) administration Single file system RAID 5 initialized disks SNMP agent Network configuration through LCD panel or floppy disk
Reliability & Availability Features	Internal UPS to filter power outage spikes and for graceful shutdown in case of power failure Smart recovery from system hangs E-mail notification of problems RAID 5 standard
Performance	Tower: 1542 NFSops at 15.8 ms (RAID 5). Rack: Est. 5292 NFSops at 14.5 ms (RAID 5) in single enclosure (4 to a rack).

Netra Ordering Information – Configured Systems

It is possible to upgrade all Netra i 3.1 servers to Netra j servers. To do so, follow the respective ordering procedures for Netra i 3.1 and include the Netra j Enhancement Software (NETRA-J-1.0-ESW) with the order.

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
<i>Netra Internet Servers</i>			
NETRA-I-3.1-545	Netra i 5 with 170 MHz TurboSPARC processor, 32MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 4, 17" color monitor, and TGX frame buffer. Solaris 2.5.1 and Netra 3.1 Software (preinstalled), InterScan VirusWall, WebStalker-First.	\$7,995	A
NETRA-I-3.1-1140	Netra i 1/140 with 143 MHz UltraSPARC processor, 64MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, and SunCD 4. Solaris 2.5.1 and Netra 3.1 Software (preinstalled), InterScan VirusWall, WebStalker-First.	\$9,495	A
NETRA-I-3.1-1145	Netra i 1/140 with 143 MHz UltraSPARC processor, 64MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 4, 17" color monitor, and TGX frame buffer. Solaris 2.5.1 and Netra 3.1 Software (pre-installed), InterScan VirusWall, WebStalker-First.	\$11,495	A
NETRA-I-3.1-1175	Netra i 1/170E with 167 MHz UltraSPARC processor, 64MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 4, 17" color monitor, and Creator graphics. Solaris 2.5.1 and Netra 3.1 Software (preinstalled), InterScan VirusWall, WebStalker-First.	\$18,895	A
NETRA-I-3.1-21200	Netra i 2/1200 with 200 MHz UltraSPARC processor, 128MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 4. Solaris 2.5.1 and Netra 3.1 Software (preinstalled), InterScan VirusWall, WebStalker-First.	\$24,995	A
<i>Netra j Servers</i>			
NETRA-J-1.0-545	Netra j 5 with 170 MHz TurboSPARC processor, 32MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 4, 17" color monitor, and TGX frame buffer. Netra j 1.0 software for JavaStations and network client support, WebConnect and OpenVista for SNA connectivity, JDK, JVM, Java Workshop, NIS, DHCP, WebStalker-First, InterScan VirusWall, Netra i 3.1 software. (Solaris 2.5.1, Netscape Enterprise Server, LiveWire, FireWall-First!, IPX Gateway preinstalled.)	\$8,195	A
NETRA-J-1.0-1145	Netra j 1/145 with 143 MHz UltraSPARC processor, 64MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, and SunCD 4, 17" color monitor, TurboGX frame buffer. Netra j 1.0 software for JavaStations and network client support, WebConnect and OpenVista for SNA connectivity, WebStalker-First, InterScan VirusWall, Java Workshop, Netra i 3.1 admin. (Solaris 2.5.1, Netscape Enterprise Server, LiveWire, FireWall-First!, IPX Gateway preinstalled.)	\$11,695	A
NETRA-J-1.0-21200	Netra j 2/1200 with 200 MHz UltraSPARC processor, 128MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, and SunCD 4, 17" color monitor, TurboGX frame buffer. Netra j 1.0 software for JavaStations and network client support, WebConnect and OpenVista for SNA connectivity, WebStalker-First, InterScan VirusWall, Java Workshop, Netra i 3.1 admin. (Solaris 2.5.1, Netscape Enterprise Server, LiveWire, FireWall-First!, IPX Gateway preinstalled.)	\$25,195	A

NOTES:

- Order an Encryption Kit (NETRA-I-3.1-E-S) at no charge with every Netra Internet Server that is ordered in the United States.
- All system orders that include a monitor must also include a Country Kit.
- In order to complete the installation and connect to the Internet, customers also need to select an Internet service provider.

Netra Hardware Upgrades – Ordering Information

<i>From</i>	<i>Part Number and Description</i>	<i>List Price</i>	<i>Discount Category</i>
<i>Netra Internet Servers – Hardware Upgrades</i>			
Netra i 4/5XX	UGN4/5XXNI3.1–1175 Chassis upgrade to Ultra 1 Netra i server with 167 MHz UltraSPARC processor, 64MB, CD-ROM, and Creator graphics. Solaris 2.5.1, Netra Software 3.1, Netscape Enterprise Server, Server LiveWire Web Site Management, Navigator, Gold Authoring, Firewall–First!, and IPX software pre–installed.	\$14,395	A*
Netra i 4/5XX	UGN4/5XXNI3.1–1170 Chassis upgrade to Ultra 1 Netra i server with 167 MHz UltraSPARC processor, 64MB, 2.1GB internal disk, floppy drive, CD-ROM, and Creator graphics. Solaris 2.5.1, Netra Software 3.1, Netscape Enterprise Server, Server LiveWire Web Site Management, Navigator, Gold Authoring, Firewall–First!, and IPX software pre–installed.	\$19,895	A*
Netra i 4/5XX	UGN4/5XXI3.1–21200 Chassis upgrade to Ultra 2 Netra i server with 200 MHz UltraSPARC processor, 128MB, and CD-ROM. Solaris 2.5.1, Netra Software 3.1, Netscape Enterprise Server, Server LiveWire Web Site Management, Navigator, Gold Authoring, Firewall–First!, and IPX software pre–installed.	\$20,595	A*
Netra i 6XX	UGN6XX–I–3.1–1175 Upgrade to Ultra 1 Netra i server with 167 MHz UltraSPARC processor, 64MB, CD-ROM, and Creator graphics. Solaris 2.5.1, Netra Software 3.1, Netscape Enterprise Server, Server LiveWire Web Site Management, Navigator, Gold Authoring, Firewall–First!, and IPX software pre–installed.	\$12,395	A*
Netra i 6XX	UGN6XX–I–3.1–21200 Upgrade to Ultra 2 Netra i server with 200 MHz UltraSPARC processor, CD-ROM, and Creator graphics (no disk and no memory). Solaris 2.5.1, Netra Software 3.1, Netscape Enterprise Server, Server LiveWire Web Site Management, Navigator, Gold Authoring, Firewall–First!, and IPX software pre–installed.	\$18,595	A*
S1000 / 6X0	UGS1000–NI3.1–4001 Upgrade to Netra i 4000 web server, Base Enclosure, 8–slot card cage, one SunCD 4, two Power/Cooling Modules, no processor, no memory, no CPU/Memory Boards, no I/O Boards. Netra Software 3.1 pre–installed, InterScan Virus Wall, WebStalker–First!, Netscape SuiteSpot. <i>NOTE:</i> See “Netra Internet Server 4000 and 5000 Ordering Flow Chart,” starting from Step 2, to order additional system components.	\$33,500	A*
S1000 / S2000	UGS2000–NI3.1–5001 Upgrade to Netra i 5000 web server, System Cabinet, 8–slot card cage, one SunCD 4, two Power/Cooling Modules, no processor, no memory, no CPU/Memory Boards, no I/O Boards. Netra Software 3.1 pre–installed, InterScan Virus Wall, WebStalker–First!, Netscape SuiteSpot. <i>NOTE:</i> See “Netra Internet Server 4000 and 5000 Ordering Flow Chart,” starting from Step 2, to order additional system components.	\$42,000	A*

* Maximum discount may apply.

Netra Software – Ordering Information

<i>From</i>	<i>Part Number and Description</i>	<i>List Price</i>	<i>Discount Category</i>
NETRA-J-1.0-ESW	Netra j Enhancement Software 1.0 to convert a Netra Internet Server release 3.1 into a Netra j server for Java Computing. Includes Netra j 1.0 software for JavaStations and network client support, NIS, Netra j admin extensions for JavaStation support, WebConnect and OpenVista for SNA connectivity, and Java Workshop.	\$395	B
NETRA-I-3.1-E-S	Netra i 3.1 Entryption Kit (U.S. customers only).	N/C	–
NETRA-NFS1.1	Netra NFS SmartServe 1.1 software providing RAID-5, support for hot plug/spare/swap, and Syntax Total-NET Advanced Server (TAS) software which allows 25 PC (LAN Manager), NetWare, and MacOS clients to simultaneously and transparently access the Netra NFS Server. Includes media, documentation and license.	N/C	–

NOTE: Netra j 1.0 Enhancement Software requires Netra i 3.1 Software.

Netra Software Upgrades – Ordering Information

<i>From</i>	<i>Part Number and Description</i>	<i>List Price</i>	<i>Discount Category</i>
Netra i Version 2.0, 3.0	NETRA-3.1-FULL-UPG Netra i 3.1 Full Software Upgrade.	\$2,695	B

Netra Internet Server i 150 and NFS 150 Server – Ordering Flow Chart

The Netra i 150 Internet Server and the Netra NFS 150 Server are configure-to-order products consisting of an entry product and additional factory-installable options. Rack-ready configurations include a rack-mount kit for standard 19-inch racks. After the base part number, each step outlined by a large box in the guide represents an **OPTIONAL** line item on a server sales order. It is possible to upgrade all Netra i 3.1 servers to Netra j servers. To do so, follow the respective ordering procedures for Netra i and include the Netra j Enhancement Software (NETRA-J-1.0-ESW) with the order. **NOTE:** Order an Encryption Kit (NETRA-I-3.1-E-S) at no charge with every Netra Internet server that is ordered in the United States.

Step 1: (Choose only one)

SERVER BASE PACKAGE

Select a Netra i 150 Internet Server or Netra NFS Server – Tower or Rack Ready system

NOTE: Order Netra NFS Smart-Serve software for NFS 150 systems (see Netra “Software” and “Options” lists).

Either:

NETRA-I-3.1-1150 – Netra i 150 – Tower Enclosure

NETRA-I-3.1-1150R – Netra i 150 – Rack Ready Enclosure

Or:

NETRA-NFS150T – Netra NFS – Tower Enclosure

NETRA-NFS150R – Netra NFS – Rack Ready Enclosure

Step 2: (Required for NFS 150 only)

CD-ROM

Order 1 internal CD-ROM for Netra NFS Server.

6165A – 12x internal CD-ROM

SERVER BASE PACKAGES:

Part Number	Description	List Price	Discount Category
NETRA-I-3.1-1150	Sun Netra i 150 Internet Server with 143MHz UltraSPARC processor, 64MB, 4.2GB Fast SCSI-2 Disk, internal 1.44MB floppy disk drive, SunCD 4, Netra Software 3.1 pre-installed, InterScan Virus Wall, WebStalker-First.	\$15,995	A
NETRA-I-3.1-1150R	Sun Netra i 150 Internet Server, Rack Ready configuration, with 143MHz UltraSPARC processor, 64MB, 4.2GB Fast SCSI-2 Disk, internal 1.44MB floppy disk drive, SunCD 4, Netra Software 3.1 pre-installed, InterScan Virus Wall, WebStalker-First.	\$15,995	A
NETRA-NFS150T	Sun Netra NFS 150 Tower System with 167 MHz UltraSPARC-I processor, 64MB, 2.1GB Fast SCSI-2 System Disk, 4 x 2.1GB Fast SCSI-2 RAID 5 Configured Data Disks with single file system, internal 1.44MB floppy disk drive, Sun CD 4Plus, and UPS.	\$20,695	A
NETRA-NFS150R	Sun Netra NFS 150 Rack-Ready System with 167 MHz UltraSPARC-I processor, 64MB, 2.1GB Fast SCSI-2 System Disk, 4 x 2.1GB Fast SCSI-2 RAID 5 Configured Data Disks with single file system, internal 1.44MB floppy disk drive, Sun CD 4Plus, and UPS.	\$20,695	A
Power Cord – Required with New System			
X311L	North American/Asian Power Cord	N/C	–

CD-ROM:

Part Number	Description	List Price	Discount Category
6165A	Optical 12x CD-ROM internal drive for the Netra NFS 150.	\$300	A*

* Maximum discount may apply.

This is not an official Price List. Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.

Netra Internet Server i 150 and NFS 150 Server – Ordering Flow Chart (Continued)

Step 3: (Optional)

ADDITIONAL MEMORY

SIMMs can only be added in pairs up to a maximum of 3 additional pairs. (Entry system includes two 32MB SIMMs).

Choose from the following:

7001A – 32MB ECC memory expansion (2 x 16MB SIMMs)

7002A – 64MB ECC memory expansion (2 x 32MB SIMMs)

7003A – 128MB ECC memory expansion (2 x 64MB SIMMs)

Netra i 150 only:

7004A – 256 MB ECC memory expansion (2 x 128MB SIMMs)

ADDITIONAL MEMORY:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
7001A	32MB ECC memory expansion (2 x 16MB SIMMs)	\$800	A*
7002A	64MB ECC memory expansion (2 x 32MB SIMMs)	\$1,400	A*
7003A	128MB ECC memory expansion (2 x 64MB SIMMs)	\$2,700	A*
<i>Netra i 150 Only:</i>			
7004A	256MB ECC memory expansion (2 x 128MB SIMMs) <i>NOTE: for Netra i 150 only.</i>	\$12,000	A*

Step 4: (Optional)

DISK OPTIONS:

NFS 150 Only – Disks can only be added in pairs. (Base configuration includes 4 disks; maximum configuration can have 12.)

i 150 Only – Base configuration includes 2 disks (1 system, 1 data). Max. configuration can have 13.

Netra i 150:

5153A – 2.1GB Internal Fast/Wide SCSI-2 Disk

Netra NFS 150 only:

5153A – 2.1GB Internal Fast/Wide SCSI-2 Disk

– OR –

5214A – 4.2GB Internal Fast/Wide SCSI-2 Disk

ADDITIONAL INTERNAL DISKS:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
<i>i 150 or NFS 150:</i>			
5153A	2.1GB 7200 RPM Internal Fast/Wide SCSI-2 Disk Drive	\$1,050	A*
<i>NFS 150 Only:</i>			
5214A	4.2GB 7200 RPM Internal Fast/Wide SCSI-2 Disk Drive <i>NOTE: 2.1GB and 4.2GB disks may not be mixed in the same system.</i>	\$1,450	A*

* Maximum discount may apply.

Netra Internet Server i 150 and NFS 150 Server – Ordering Flow Chart (Continued)

Step 5 (Optional):

Choose from the following:

INTERNAL STORAGE

Add 1 internal 4mm tape drive.

6256A – 4–8GB 4mm DDS–2 Tape Drive
6286A – 12–24GB 4mm DDS–3 Tape Drive

INTERNAL STORAGE:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
6256A	4–8GB 4mm DDS–2 Internal Tape Drive	\$1,250	A
6286A	12–24GB 4mm DDS–3 Internal Tape Drive for Enterprise 150	\$2,400	A

Step 6 (Optional):

Choose from the following:

NETWORK CARD

Add 1 card to system configuration.

1058A – SBus Quad Ethernet Controller 1.1 (SQEC)
1025A – SunFDDI Single–Attach SBus Adapter (SAS)
1059A – SunFastEthernet 10/100 SBus Adapter 2.0
X1014A – Token Ring Interface / SBus (TRI/S)
1026A – SunFDDI Dual Attach SBus Adapter 5.0 (DAS)
1060A – SunATM–155/MFiber SBus Adapter 2.0
1061A – SunATM–155/UTP5 SBus Adapter 2.0

NETWORK CARD:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
1058A	SBus Quad Ethernet Controller 1.1 (SQEC)	\$995	A
1025A	SunFDDI Single–Attach SBus Adapter 5.0 (SAS)	\$2,500	A
1059A	SunFastEthernet 10/100 SBus Adapter 2.0	\$795	A
X1014A	Token Ring Interface / SBus (TRI/S)	\$1,350	B
1026A	SunFDDI Dual Attach SBus Adapter 5.0 (DAS)	\$3,775	A
1060A	SunATM–155/MFiber SBus Adapter 2.0	\$1,295	A
1061A	SunATM–155/UTP5 SBus Adapter 2.0	\$995	A

Netra Internet Server 4000 and 5000 – Ordering Flow Chart

This is a sample ordering guide for the Netra Internet Server 4000 and 5000. Each step outlined by a large box in the guide represents a line item on a server sales order. A minimum legal configuration can be created by choosing one option at each step of the order process marked “**Required**”. Larger configurations can be created by choosing multiple options. It is possible to upgrade a Netra i 4000 and i 5000 to support the Netra j functionality. Follow the ordering procedures for Netra i 4000 and i 5000 and add the Netra j Enhancement Software (NETRA-J-1.0-ESW) to the order. **NOTE:** Order an Encryption Kit (NETRA-I-3.1-E-S) at no charge with every Netra Internet server that is ordered in the United States.

Step 1 – Required:

NETRA BASE PACKAGE

NOTE: Order an Encryption Kit (NETRA-I-3.1-E-S) at no charge with every Netra Internet Server that is ordered in the United States.

Either:

NETRA-I-3.1-4001 –
Netra i 4000

Or:

NETRA-I-3.1-5001 –
Netra i 5000

Step 2 – Required:

UltraSPARC MODULE

Minimum of 1 per system.

Maximum of 2 per CPU/memory board

Maximum of 14 total.

Mixing of 167-MHz and 250-MHz modules in a single system is not supported.

Either:

2510A – 167 MHz, 1MB
External Cache

Or:

2530A – 250 MHz, 1MB
External Cache

SERVER BASE PACKAGES:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
NETRA-I-3.1-4001	Netra i 4000 Web Server, Enclosure, 8-slot card cage, 1 SunCD 4, 2 Power/Cooling Modules, no processor, no memory, no CPU/Memory Boards, no I/O boards. Netra 3.1 software pre-installed, InterScan VirusWall, WebStalker-First, Netscape SuiteSpot.	\$46,000	A
NETRA-I-3.1-5001	Netra i 4000 Web Server, Enclosure, 8-slot card cage, 1 SunCD 4, 2 Power/Cooling Modules, no processor, no memory, no CPU/Memory Boards, no I/O boards. Netra 3.1 software pre-installed, InterScan VirusWall, WebStalker-First, Netscape SuiteSpot.	\$61,000	A
<i>Netra j Enhancement Software</i>			
NETRA-J-1.0-ESW	Software-only enhancement to convert a Netra Internet Server Release 3.1 into a Netra j Server for Java computing. Includes JavaStation client and user support DHCP, Netra administration extensions for managing JaaStation clients, userws and NIS; WebConnect software for SNA access and Open Vista for 3270/5250/VT220 GUI.	\$395	B

UltraSPARC MODULE:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
2510A	UltraSPARC module, 167 MHz, 1MB External Cache.	\$12,000	A
2530A	UltraSPARC module, 250 MHz, 1MB External Cache.	\$16,000	A

Netra Internet Server 4000 and 5000 – Ordering Flow Chart

Step 3 – Required:

SYSTEM MEMORY

Minimum of 1 per system.
Maximum of 2 per CPU/memory board.
Maximum of 14 total.

Choose from the following:

7021A – 64MB ECC memory expansion (8 x 8MB SIMMs)
7022A – 256MB ECC memory expansion (8 x 32MB SIMMs)
7023A – 1GB ECC memory expansion (8 x 128MB SIMMs)

Step 4 – Required:

CPU / MEMORY BOARD

Minimum of 1 per system.
Maximum of 7.

2600A – CPU/Memory Board

Step 5 – Required:

SBUS I/O BOARD:

Must order 1 per system.

2610A – SBUS I/O Board

SYSTEM MEMORY:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
7021A	64MB ECC memory expansion (8 x 8MB SIMMs)	\$2,500	A*
7022A	256MB ECC memory expansion (8 x 32MB SIMMs)	\$4,750	A*
7023A	1GB ECC memory expansion (8 x 128MB SIMMs)	\$48,500	A*

NOTES: • 1 Memory expansion occupies 1 memory bank consisting of 8 SIMMs.

- Mixing memory options is supported as long as all SIMMs in 1 memory bank are the same.

CPU / MEMORY BOARD:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
2600A	CPU/Memory Board, two empty CPU slots, two empty memory banks.	\$9,000	A

SBUS I/O BOARD:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
2610A	SBUS I/O Board, three empty SBUS slots, two empty 25 MB/sec. Fibre Channel sockets, one Fast/Wide SCSI interface, one 10/100 Mb/sec. Ethernet (Twisted Pair or MII) interface.	\$6,500	A

* Maximum discount may apply.

Netra Internet Server 4000 and 5000 – Ordering Flow Chart

Step 6 – Optional:

GRAPHICS I/O BOARD:

Maximum of 5 per system.

2620A – Graphics I/O Board



Step 7 – Required:

DISK BOARD:

Minimum of 1 per system.
Maximum of 4.

5161A – 4.2GB Disk Board



Step 8 – Optional:

POWER / COOLING MODULE:

Two included in base package.
Maximum of 4.

954A – Power / Cooling
Module, 300W



GRAPHICS I/O BOARD:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
2620A	Graphics I/O Board, one UPA slot, two empty SBus slots, two empty 25 MB/sec. Fibre Channel sockets, one Fast/Wide SCSI interface, one 10/100 Mb/sec. Ethernet (Twisted Pair or MII) interface.	\$7,000	A

DISK BOARD:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
5161A	4.2GB Disk Board, 2 x 2.1GB 7200 RPM Fast/Wide SCSI Disk Drives <i>NOTE: At least one SWIS/S SBus card is required to connect to the Disk Board on Netra i 5000.</i>	\$3,800	A*

POWER / COOLING MODULE:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
954A	Power/Cooling Module, 300W.	\$1,800	A

* Maximum discount may apply.

Netra Internet Server 4000 and 5000 – Ordering Flow Chart

Step 9 – Optional:

INTERNAL TAPE OPTIONS:

Netra 1 4000 Only – Maximum of 1 internal tape drive.

i 4000 Only:

6256A – Internal 4–8GB 4mm DDS–2 Tape Drive

6206A – Internal 14GB 8mm Tape Drive

6104A – Internal 2.5GB 1/4” Tape Drive

INTERNAL TAPE OPTIONS:

Netra 1 5000 Only – Maximum of 1 Internal Tape Drive

– AND –

Maximum of 1 Multi–Tape Backup Tray (MTBT) or SPARCstorage Library (SSL). Additional Expansion Tape Drive Options are available for the MTBT's.

Netra i 5000 Only:

Choose one –

6283AR4 – Internal 12–24GB 4mm DDS–3 Tape Drive

6206AR4 – Internal 14GB 8mm Tape Drive

6104AR4 – Internal 2.5GB 1/4” Tape Drive

– and choose one –

6292AR4 – 72–144GB 4mm DDS–3 Tape Autoloader w/ MTBT

6205AR4 – 14GB 8mm Tape Drive with MTBT

6056AR4 – DLT4000 Tape Drive with MTBT

6221AR4 – 140GB SPARCstorage Library, 1 Tape Drive

6222AR4 – 140GB SPARCstorage Library, full config.

6226AR4 – 400GB 8mm SPARCstorage Library Model 8/400

INTERNAL TAPE OPTIONS:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
<i>Netra i 4000 Internal Tape Options:</i>			
6256A	Internal 4–8GB 4mm DDS–2 Tape Drive	\$1,250	A
6206A	Internal 14GB 8mm Tape Drive	\$2,700	A
6104A	Internal 2.5GB 1/4–inch Tape Drive	\$900	A
<i>Netra i 5000 Internal Tape Options:</i>			
6283AR4	Internal 12–24GB 4mm DDS–3 Tape Drive	\$2,400	A
6206AR4	Internal 14GB 8mm Tape Drive	\$2,700	A
6104AR4	Internal 2.5GB 1/4–inch Tape Drive	\$900	A
6292AR4	Internal 72–144GB 4mm DDS–3 Tape AutoLoader with Multi–Tape Backup Tray	\$6,000	A
6205AR4	14GB 8mm Expansion Tape Drive with the Multi–Tape Backup Tray (50–68 pin SCSI cable).	\$4,700	A
6056AR4	20–40GB SPARCstorage DLT4000 Expansion Tape Drive with the Multi–Tape Backup Tray (50–68 pin SCSI cable).	\$8,500	A
6221AR4	140GB SPARCstorage Library with one Tape Drive (50–68 pin SCSI cable).	\$8,800	A
6222AR4	140GB SPARCstorage Library, full configuration (50–68 pin SCSI cable).	\$12,800	A
6226AR4	400GB 8mm SPARCstorage Library Model 8/400, rack mountable unit with tape drives, dark grey color	\$27,000	A

Netra Internet Server 4000 and 5000 – Ordering Flow Chart

Step 10 – Optional:

SPARCstorage ARRAY OPTIONS:

Maximum of 40.

Netra i 5000 Only – Maximum of 3 Array Model 112's (Accessories Kit X959A required)

– OR –

Maximum of 4 Array RSM's

– OR –

Maximum of 4 DSCSI Disk Trays.

Netra i 4000 or i 5000 – Choose from the following (Drop "X" and append "R4" for i 5000):

X6590A – Array Model 112, 6 x 2.1GB disk drives

X6591A – Array Model 112, 18 x 2.1GB disk drives

X6592A – Array Model 112, 30 x 2.1GB disk drives

Netra i 5000 Only – Choose from the following:

6503AR4 – SPARCstorage RSM with 3 x 4.2GB disks

6504AR4 – SPARCstorage RSM with 7 x 4.2GB disks

5161A – 4.2GB Disk Board

SPARCstorage ARRAY OPTIONS:

Part Number	Description	List Price	Discount Category
Netra i 4000 or i 5000			
(X)6590A	SPARCstorage Array Model 112 with 6 x 2.1GB (12.6GB) 7200 RPM disk drives.	\$21,700	A*
(X)6591A	SPARCstorage Array Model 112 with 18 x 2.1GB (37.8GB) 7200 RPM disk drives.	\$33,900	A*
(X)6592A	SPARCstorage Array Model 112 with 30 x 2.1GB (63GB) 7200 RPM disk drives.	\$45,700	A*
Netra i 5000 Only			
6503AR4	SPARCstorage RSM disk tray with 3 x 4.2GB 5400 RPM drives.	\$9,650	A*
6504AR4	SPARCstorage RSM disk tray with 7 x 4.2GB 5400 RPM drives.	\$15,850	A*
5161A	4.2GB Disk Board with 2 x 2.1GB 7200 RPM Fast/Wide SCSI disk drives	\$3,800	A*
959A	SPARCstorage Array Accessories Kit for Enterprise System or Expansion Cabinet (media and documentation).	N/C	–

* Maximum discount may apply.

Step 11 – Optional:

EXTERNAL TAPE OPTIONS:

Maximum of 4 external tape drives.

Maximum of 4 SPARCstorage Libraries.

Choose from the following:

X6223A – 140GB SPARCstorage Library, 1 tape drive, stackable unit.

X6224A – 140GB SPARCstorage Library, full configuration, stackable.

X6052A – SPARCstorage DLT4000 tape drive in external desktop enclosure.

X6071A – SPARCstorage DLT4700 Tape Auto-Loader in external desktop enclosure.

EXTERNAL TAPE OPTIONS:

Part Number	Description	List Price	Discount Category
X6223A	140GB SPARCstorage Library, 1 tape drive, stackable unit (50–68 pin SCSI cable).	\$8,800	A
X6224A	140GB SPARCstorage Library, full configuration, stackable unit (50–68 pin SCSI cable).	\$12,800	A
X6052A	20–40GB SPARCstorage DLT4000 Tape Drive in external desktop enclosure (50–68 pin SCSI cable).	\$7,100	A
X6071A	140–280GB SPARCstorage DLT4700 Auto-Loader in external desktop enclosure (50–68 pin SCSI cable).	\$16,000	A

Netra Internet Server 4000 and 5000 – Ordering Flow Chart

Step 12 – Required:

INTERFACES & HOST ADAPTERS:

Minimum of one 1063A is required.
Additional options may be required to support configured mass storage and tape devices.

Required:

1063A – SBus Single-Ended Fast/Wide Intelligent SCSI-2 Host Adapter (SWIS/S)

Optional:

595A – 25 MB/sec. Fibre Channel Optical Module.
1057A – 25 MB/sec. SBus Fibre Channel Host Adapter.
1062A – SBus Fast/Wide Differential Intelligent SCSI-2 Host Adapter (DWIS/S).
X1018A – SunSwift SBus Adapter

INTERFACES & HOST ADAPTERS:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
<i>Required</i>			
1063A	SBus Single-Ended Fast/Wide Intelligent SCSI-2 Host Adapter (SWIS/S)	\$1,195	A
<i>Optional</i>			
595A	25 MB/sec. Fibre Channel Optical Module	\$600	A
1057A	25 MB/sec. SBus Fibre Channel Host Adapter	\$1,600	A
1062A	SBus Fast/Wide Differential Intelligent SCSI-2 Host Adapter (DWIS/S).	\$1,295	A
X1018A	SunSwift SBus Adapter	\$1,095	A

POWER CORD / COUNTRY KIT:

Step 13 – Required:

POWER CORD / COUNTRY KIT:

Netra i 4000 – Order one Power Cord Kit at no charge. Order a Type 5 Country Kit if system includes a monitor.

Netra i 5000 – Order 1 Power Cord for every Server or Expansion Cabinet.

Netra i 4000:

X311L – North American Power Cord Kit

Netra i 5000:

3800A – Power Cord, U.S.
3848A – Power Cord, Int'l.

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
<i>Netra i 4000</i>			
X311L	Localized power cord kit, North American/Asian (server country kit)	N/C	–
X3500A	Type 5 Country Kit, North American, U.S. or Canada only. Order only when purchasing monitors.	N/C	–
X3540A	Type 5 Country Kit, UNIX, North American, U.S. or Canada only. Order only when purchasing monitors.	N/C	–
<i>Netra i 5000</i>			
3800A	Power Cord for Enterprise System and Expansion Cabinets, U.S. version (NEMA L6-30P plug).	N/C	–
3848A	Power Cord for Enterprise System and Expansion Cabinets, International version (IEC 309 plug, 32A, 250V).	N/C	–

NOTE: See the official End User Price Book for a complete listing of power cords and country kits.

Netra Option Compatibility & Pricing:

Option	Description	List Price	Discount Category	i5 / j5	i 140 j 145	i 150 j 150	i 170E j 170E	i 1200 j 1200	NFS 150	i 4000 j 4000	i 5000 j 5000
X108M	8MB memory expansion (8MB SIMM)	\$250	A*	✓							
X132M	32MB memory expansion (32MB SIMM)	\$650	A*	✓							
X322A	17" color monitor, TurboGX frame buffer, and cable NOTE: Uses 1 SBus slot in NFS 150 configuration.	\$2,950	A	✓	✓	✓	✓	✓	✓	✓	✓
X323A	17" color monitor, S24 24-bit Color frame buffer, and cable NOTE: Requires Solaris 2.3, Hardware: 8/94 or higher.	\$3,900	A	✓							
X359A	20" color monitor, TurboGX frame buffer, and cable.	\$3,950	A		✓	✓		✓	✓	✓	✓
X467A	MII to AUI Converter Cable	\$295	A		✓	✓	✓		✓		
(X)595A	25 MB/sec. Fibre Channel Optical Module	\$600	A							✓	✓
X659A	2.1GB 5400 RPM Internal Fast SCSI-2 SC Expansion Disk	\$900	A*	✓							
X845A	14GB 8mm Tape Drive for the SPARCstorage Library Model 8/140 NOTE: Requires Solaris 2.3 or later.	\$3,000	A	For SPARCstorage Library Model 8/140							
X847A	140GB 8mm SPARCstorage Library Model 8/140, Tower Unit NOTE: Requires Solaris 2.3 or later, Solstice Backup 4.1.2, the Turbo Module and the 1-16 Slot Capacity Juke-box Software Module License to run in a random-access mode and to access the bar-code reader functions.	\$8,800	A	✓	✓	✓	✓	✓	✓	✓	
X867A	140GB 8mm SPARCstorage Library Model 8/140, Two Drives and Bar-Code, Tower Unit NOTE: Requires Solaris 2.3 or later, Solstice Backup 4.1.2, the Turbo Module and the 1-16 Slot Capacity Juke-box Software Module License to run in a random-access mode and to access the bar-code reader functions.	\$12,800	A	✓	✓	✓	✓	✓	✓	✓	
X902A	2-meter 68-pin external SCSI cable	\$125	N/D							✓	✓
X954A	Power/Cooling Module, 300W.	\$1,800	A							✓	✓
X975A	IBM-compatible Parallel Port Adapter Cable	\$95	B	✓	✓	✓	✓	✓	✓		
X976A	Centronics-compatible Parallel Port Adapter Cable	\$75	B	✓	✓	✓	✓	✓	✓		
X981A	AUI Adapter Cable	\$75	B	✓	✓	✓	✓	✓	✓		
X985A	Serial Port Splitter Cable	\$50	N/D	✓	✓	✓	✓	✓	✓		

* Maximum discount may apply.

This is not an official Price List. Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.

Netra Option Compatibility & Pricing (continued):

Option	Description	List Price	Discount Category	i5 / j5	i 140 j 145	i 150 j 150	i 170E j 170E	i 1200 j 1200	NFS 150	i 4000 j 4000	i 5000 j 5000
X1008A	Serial Parallel Controller (SPC/S)	\$1,095	A	✓	✓	✓	✓	✓			
X1012A	SunISDN Expansion Kit, SunISDN Card, Certification Labels, and SunISDN Enabling Kit 1.0.1	\$595	A	✓	✓	✓	✓	✓		✓	✓
X1014A	Token Ring Interface/SBus (TRI/S) for Solaris 2.x	\$1,350	B	✓	✓	✓	✓	✓	✓	✓	✓
X1019A	High-Speed Serial Interface/SBus (HSI/S) for Solaris 2.x	\$2,275	B	✓	✓	✓	✓	✓		✓	✓
X1025A	SunFDDI Single-Attach SBus Adapter (SAS) 5.0 <u>NOTE: Requires Solaris 2.5 or later.</u>	\$2,500	A	✓	✓	✓	✓	✓	✓		
X1026A	SunFDDI Dual-Attach SBus Adapter (DAS) 5.0 <u>NOTE: Requires Solaris 2.5 or later.</u>	\$3,775	A	✓	✓	✓	✓	✓	✓	✓	✓
X1030A	PCMCIA Interface/SBus Card	\$295	A	✓	✓	✓	✓	✓			
X1053A	SBus Fast SCSI-2/Buffered Ethernet Card (FSBE/S)	\$1,095	A	✓	✓	✓	✓	✓		✓	✓
X1054A	SBus SCSI/Buffered Ethernet Card (SBE/S)	\$1,095	A	✓	✓	✓	✓	✓			
X1055A	SBus SCSI Host Adapter	\$495	A	✓	✓	✓	✓	✓	✓		
X1058A	SBus Quad Ethernet Controller (SQEC)	\$995	A	✓	✓	✓	✓	✓	✓	✓	✓
X1059A	SunFastEthernet 10/100 SBus Adapter 2.0 SBus Card <u>NOTE: Requires Solaris 2.5 or later.</u>	\$795	A	✓	✓	✓	✓	✓	✓	✓	✓
X1060A	SunATM-155/MFiber SBus Adapter 2.0 <u>NOTE: Requires Solaris 2.4, Hardware: 11/94 or later.</u>	\$1,295	A	✓	✓	✓	✓	✓	✓	✓	✓
X1061A	SunATM-155/UTP5 SBus Adapter 2.0 <u>NOTE: Requires Solaris 2.4, Hardware: 11/94 or later.</u>	\$995	A	✓	✓	✓	✓	✓	✓	✓	✓
X1062A	SBus Fast/Wide Differential Intelligent SCSI-2 Host Adapter (DWIS/S) <u>NOTE: Requires Solaris 2.3 or later.</u>	\$1,295	A		✓	✓	✓	✓		✓	✓
X1063A	SBus Single-Ended Fast/Wide Intelligent SCSI-2 Host Adapter (SWIS/S) <u>NOTE: Requires Solaris 2.3 or later.</u>	\$1,195	A	✓	✓	✓	✓	✓		✓	✓
(X)2510A	UltraSPARC module, 167 MHz, 1MB external cache.	\$12,000	A							✓	✓
(X)2600A	CPU/Memory Board with 2 empty CPU slots and 2 empty memory banks.	\$9,000	A							✓	✓

Netra Option Compatibility & Pricing (continued):

<i>Option</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>	<i>i5 / j5</i>	<i>i 140 j 145</i>	<i>i 150 j 150</i>	<i>i 170E j 170E</i>	<i>i 1200 j 1200</i>	<i>NFS 150</i>	<i>i 4000 j 4000</i>	<i>i 5000 j 5000</i>
(X)2610A	SBus I/O Board with 3 empty SBus slots, 2 empty 25MB/sec. Fibre Channel sockets, 1 Fast/Wide SCSI interface, and one 10/100 MB/sec. Ethernet (Twisted Pair or MII) Interface.	\$6,500	A							✓	✓
(X)2620A	Graphics I/O Board with 1 UPA slot, 2 empty SBus slots, 2 empty 25MB/sec. Fibre Channel sockets, 1 Fast/Wide SCSI interface, and one 10/100 MB/sec. Ethernet (Twisted Pair or MII) interface.	\$7,000	A							✓	✓
X3500A	Type 5 Country Kit – North American (U.S. or Canada only)	N/C	–	Order only if server includes a monitor.							
X3540A	Type 5 Country Kit – UNIX (U.S. or Canada only)	N/C	–	Order only if server includes a monitor.							
X3651A	20" color monitor, Creator 24-bit single buffered graphics accelerator, and cable.	\$4,950	A				✓	✓		✓	✓
X3652A	20" color monitor, Creator3D 24-bit double buffered graphics accelerator with Z buffer for 3D solids, and cable.	\$6,950	A				✓	✓		✓	✓
X3800A	Power Cord for Enterprise System and Expansion Cabinets, U.S. version (NEMA L6–30P plug).	N/C	–							✓	✓
X3848A	Power Cord for Enterprise System and Expansion Cabinets, International version (IEC 309 plug, 32A, 250V).	N/C	–							✓	✓
X3860A	Fast–Narrow SCSI–2 cable for connecting X–options to Ultra 2.	\$25	A					✓			
X5151A ① ②	2.1GB 7200 RPM Fast/Wide SCSI–2 Disk UniPack with 68–68 pin SCSI cable	\$1,275	A*	✓	✓	✓	✓	✓		✓	
X5152A ② ③	2.1GB 7200 RPM Fast/Wide SCSI–2 Disk UniPack with 50–68 pin SCSI cable	\$1,275	A*	✓	✓	✓	✓	✓		✓	
X5153A	2.1GB 7200 RPM Internal Fast/Wide SCSI–2 SC Expansion Disk for Netra systems and Multi–Disk Pack	\$1,050	A*			✓	✓	✓	✓◆		
(X)5161A	4.2GB Disk Board with 2 x 2.1GB 7200 RPM Fast/Wide SCSI Disk Drives.	\$3,800	A*							✓	✓
X5175A	2.1GB 5400 RPM Internal Fast SCSI–2 SC Expansion Disk	\$900	A*		✓						

NOTES:

* Maximum discount may apply.

◆ Must be ordered in pairs.

① 68–68 pin cables are required to connect a UniPack to another UniPack or to a wide SCSI host adapter like the SWIS/S Host Adapter (X1063A).

② A SWIS/S Host Adapter with Solaris 2.3 or later is required for Wide SCSI functionality.

③ 50–68 pin cables are required to connect a UniPack to a 50–pin SCSI Host Adapter or to a Desktop Storage or Disk Pack.

Netra Option Compatibility & Pricing (continued):

Option	Description	List Price	Discount Category	i5 / j5	i 140 j 145	i 150 j 150	i 170E j 170E	i 1200 j 1200	NFS 150	i 4000 j 4000	i 5000 j 5000
X5209A ① ②	4GB 7200 RPM Fast/Wide SCSI-2 Disk UniPack with 68-68 pin SCSI cable. <u>NOTE:</u> Requires Solaris 2.3 or later.	\$1,675	A*	✓	✓	✓	✓	✓		✓	
X5213A ② ③	4GB 7200 RPM Fast/Wide SCSI-2 Disk UniPack with 50-68 pin SCSI cable. <u>NOTE:</u> Requires Solaris 2.3 or later.	\$1,675	A*	✓	✓	✓	✓	✓		✓	
X5214A	4.2GB 7200 RPM Fast SCSI-2 Internal SC Drive and Expansion Drive for MultiPack 12.	\$1,450	A*			✓	✓	✓	✓		
X5251A	9.1GB Internal 7200 RPM Fast/Wide SCSI-2 Disk Drive	\$2,320	A*	Expansion Drive for MultiPack 6							
X5253A ① ②	9.1GB 7200 RPM Fast/Wide SCSI-2 Disk UniPack with 68-68 pin SCSI cable. <u>NOTE:</u> Requires Solaris 2.3 or later.	\$2,545	A*	✓	✓	✓	✓	✓		✓	
X5254A ② ③	9.1GB 7200 RPM Fast/Wide SCSI-2 Disk UniPack with 50-68 pin SCSI cable. <u>NOTE:</u> Requires Solaris 2.3 or later.	\$2,545	A*	✓	✓	✓	✓	✓		✓	
X5504A	18.2GB (2 x 9.1GB) 7200 RPM SCSI-2 SPARCstorage MultiPack <u>NOTE:</u> Requires Solaris 2.3 or later.	\$5,640	A*	✓	✓	✓	✓	✓			
X5505A	36.4GB (4 x 9.1GB) 7200 RPM SCSI-2 SPARCstorage MultiPack <u>NOTE:</u> Requires Solaris 2.3 or later.	\$10,280	A*	✓	✓	✓	✓	✓			
X5506A	54.6GB (6 x 9.1GB) 7200 RPM SCSI-2 SPARCstorage MultiPack <u>NOTE:</u> Requires Solaris 2.3 or later.	\$14,920	A*	✓	✓	✓	✓	✓			
X5511A	4.2GB (2 x 2.1GB) 7200 RPM SCSI-2 SPARCstorage MultiPack with 68-68 pin SCSI cable <u>NOTE:</u> Requires Solaris 2.3 or later.	\$3,100	A*	✓	✓	✓	✓	✓		✓	
X5512A	12.6GB (6 x 2.1GB) 7200 RPM SCSI-2 SPARCstorage MultiPack with 68-68 pin SCSI cable <u>NOTE:</u> Requires Solaris 2.3 or later.	\$7,300	A*	✓	✓	✓	✓	✓	✓	✓	
X5513A	25.2GB (12 x 2.1GB) 7200 RPM SCSI-2 SPARCstorage MultiPack with 68-68 pin SCSI cable <u>NOTE:</u> Requires Solaris 2.3 or later.	\$13,600	A*	✓	✓	✓	✓	✓	✓	✓	

NOTES:

* Maximum discount may apply.

① 68-68 pin cables are required to connect a UniPack to another UniPack or to a wide SCSI host adapter like the SWIS/S Host Adapter (X1063A).

② A SWIS/S Host Adapter with Solaris 2.3 or later is required for Wide SCSI functionality.

③ 50-68 pin cables are required to connect a UniPack to a 50-pin SCSI Host Adapter or to a Desktop Storage or Disk Pack.

This is not an official Price List. Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.

Netra Option Compatibility & Pricing (continued):

<i>Option</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>	<i>i5 / j5</i>	<i>i 140 j 145</i>	<i>i 150 j 150</i>	<i>i 170E j 170E</i>	<i>i 1200 j 1200</i>	<i>NFS 150</i>	<i>i 4000 j 4000</i>	<i>i 5000 j 5000</i>
X5514A	8.4GB (2 x 4.2GB) 7200 RPM SCSI–2 SPARCstorage MultiPack with 68–68 pin SCSI cable <i>NOTE: Requires Solaris 2.3 or later.</i>	\$3,900	A*	✓	✓	✓	✓	✓			
X5515A	25.2GB (6 x 4.2GB) 7200 RPM SCSI–2 SPARCstorage MultiPack with 68–68 pin SCSI cable <i>NOTE: Requires Solaris 2.3 or later.</i>	\$9,700	A*	✓	✓	✓	✓	✓			
X5516A	50.4GB (12 x 4.2GB) 7200 RPM SCSI–2 SPARCstorage MultiPack with 68–68 pin SCSI cable <i>NOTE: Requires Solaris 2.3 or later.</i>	\$18,400	A*	✓	✓	✓	✓	✓			
X6051A	SPARCstorage DLT4000 tape drive in external desktop enclosure with 50–50 pin SCSI cable <i>NOTE: Requires Solaris 2.4 or later.</i>	\$7,100	A	✓	✓	✓	✓	✓	✓	✓	
X6052A	SPARCstorage DLT4000 tape drive in external desktop enclosure with 50–68 pin SCSI cable <i>NOTE: Requires Solaris 2.4 or later.</i>	\$7,100	A	✓	✓	✓	✓	✓	✓	✓	
(X)6055A	20–40GB SPARCstorage DLT4000 internal drive for Multi–Tape Backup Tray.	\$6,500	A								✓
X6056A	SPARCstorage DLT4000 Tape with Multi–Tape Tray	\$8,500	A	✓	✓	✓	✓	✓	✓	✓	✓
X6071A	140–280GB SPARCstorage DLT4700 AutoLoader in a Desktop ”Enclosure with SCSI cable. <i>NOTE: Requires Solaris 2.4 or later.</i>	\$16,000	A	✓	✓	✓	✓	✓	✓		
X6101A ①	2.5GB QIC Tape UniPack with 68–68 pin SCSI cable	\$1,125	A	✓	✓	✓	✓	✓		✓	
X6102A ③	2.5GB QIC Tape UniPack with 50–68 pin SCSI cable	\$1,125	A	✓	✓	✓	✓	✓		✓	
(X)6104A	Internal 2.5GB 1/4–inch Tape Drive	\$900	A							✓	✓
X6151A ①	SunCD 4 SPARCstorage UniPack with 68–68 pin SCSI cable	\$525	A*	✓	✓	✓	✓	✓	✓	✓	
X6152A ③	SunCD 4 SPARCstorage UniPack with 50–68 pin SCSI cable	\$525	A*	✓	✓	✓	✓	✓	✓	✓	
X6157A ①	SunCD 12 UniPack with 68–68 pin SCSI cable	\$525	A*	✓	✓	✓	✓	✓			

NOTES:

* Maximum discount may apply.

① 68–68 pin cables are required to connect a UniPack to another UniPack or to a wide SCSI host adapter like the SWIS/S Host Adapter (X1063A).

② A SWIS/S Host Adapter with Solaris 2.3 or later is required for Wide SCSI functionality.

③ 50–68 pin cables are required to connect a UniPack to a 50–pin SCSI Host Adapter or to a Desktop Storage or Disk Pack.

This is not an official Price List. Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.

Netra Option Compatibility & Pricing (continued):

Option	Description	List Price	Discount Category	i5 / j5	i 140 j 145	i 150 j 150	i 170E j 170E	i 1200 j 1200	NFS 150	i 4000 j 4000	i 5000 j 5000
X6158A ③	SunCD 12 UniPack with 50–68 pin SCSI cable	\$525	A*	✓	✓	✓	✓	✓			
X6201A ① ②	14GB 8mm Tape UniPack with 68–68 pin SCSI cable	\$2,925	A	✓	✓	✓	✓	✓	✓	✓	
X6202A ② ③	14GB 8mm Tape UniPack with 50–68 pin SCSI cable	\$2,925	A	✓	✓	✓	✓	✓	✓	✓	
(X)6204A	Internal 14GB 8mm Tape Drive for Multi–Tape Backup Tray	\$2,700	A								✓
(X)6205A	14GB 8mm Tape Drive with Multi–Tape Tray and 50–68 pin SCSI cable.	\$4,700	A							✓	✓
(X)6206A	Internal 14GB 8mm Tape Drive	\$2,700	A							✓	✓
(X)6221A	140GB SPARCstorage Library tape drive with 2–meter 50–68 pin SCSI cable.	\$8,800	A							✓	✓
(X)6222A	140GB SPARCstorage Library, full configuration, with 2–meter 50–68 pin SCSI cable.	\$12,800	A							✓	✓
X6225A	400–800GB 8mm SPARCstorage Library, External Deskside unit. NOTE: Requires Solaris 2.5 or later and DWIS/S Host Adapter	\$27,000	A		✓	✓	✓	✓	✓	✓	✓
X6230A ① ②	20–40GB 8mm SPARCstorage UniPack with 68–68 pin SCSI cable. NOTE: Requires Solaris 2.5 or later.	\$7,125	A	✓	✓	✓	✓	✓	✓	✓	✓
X6231A ② ③	20–40GB 8mm SPARCstorage UniPack with 50–68 pin SCSI cable. NOTE: Requires Solaris 2.5 or later.	\$7,125	A	✓	✓	✓	✓	✓	✓	✓	✓
X6253A ①	4–8GB 4mm DDS–2 Tape UniPack with 68–68 pin SCSI cable.	\$1,475	A	✓	✓	✓	✓	✓	✓		
X6254A ③	4–8GB 4mm DDS–2 Tape UniPack with 50–68 pin SCSI cable.	\$1,475	A	✓	✓	✓	✓	✓	✓		
X6256A	4–8GB 4mm DDS–2 Internal Tape Drive	\$1,250	A	✓		✓			✓	✓	✓
(X)6280A ①	12–24GB 4mm DDS–3 Tape UniPack with 68–68 pin SCSI cable.	\$2,625	A	✓	✓	✓	✓	✓	✓		

NOTES:

* Maximum discount may apply.

① 68–68 pin cables are required to connect a UniPack to another UniPack or to a wide SCSI host adapter like the SWIS/S Host Adapter (X1063A).

② A SWIS/S Host Adapter with Solaris 2.3 or later is required for Wide SCSI functionality.

③ 50–68 pin cables are required to connect a UniPack to a 50–pin SCSI Host Adapter or to a Desktop Storage or Disk Pack.

Netra Option Compatibility & Pricing (continued):

Option	Description	List Price	Discount Category	i5 / j5	i 140 j 145	i 150 j 150	i 170E j 170E	i 1200 j 1200	NFS 150	i 4000 j 4000	i 5000 j 5000
(X)6281A ③	12–24GB 4mm DDS–3 Tape UniPack with 50–68 pin SCSI cable.	\$2,625	A	✓	✓	✓	✓	✓	✓		
(X)6282A	12–24GB 4mm DDS–3 Internal Tape Drive NOTE: Requires Solaris 2.4 or higher.	\$2,400	A		✓		✓	✓			
(X)6286A	12–24GB 4mm DDS–3 Internal Tape Drive for E150.	\$2,400	A			✓			✓		
(X)6283A	12–24GB 4mm DDS–3 Internal Tape Drive.	\$2,400	A							✓	✓
(X)6292A	72–144GB 4mm DDS–3 Tape AutoLoader with Multi–Tape Backup Tray.	\$6,000	A								✓
(X)6293A	72–144GB 4mm DDS–3 Autoloader internal drive with multi–tape backup tray.	\$8,000	A							✓	✓
X7001A	32MB ECC memory expansion (2 x 16MB SIMMs)	\$800	A*		✓	✓	✓	✓	✓		
X7002A	64MB ECC memory expansion (2 x 32MB SIMMs)	\$1,400	A*		✓	✓	✓	✓	✓		
X7003A	128MB ECC memory expansion (2 x 64MB SIMMs)	\$2,700	A*		✓	✓	✓	✓	✓		
X7004A	256MB ECC memory expansion (2 x 128MB SIMMs)	\$12,000	A*		✓	✓	✓	✓			
X7021A	64MB ECC memory expansion (8 x 8MB SIMMs)	\$2,500	A*							✓	✓
X7022A	256MB ECC memory expansion (8 x 32MB SIMMs)	\$4,750	A*							✓	✓
X7023A	1GB ECC memory expansion (8 x 128MB SIMMs)	\$48,500	A*							✓	✓
NETRA– I–3.1–E–S	Netra i 3.1 Encryption Kit. For U.S. customers only.	N/C	–	✓	✓	✓	✓	✓	✓	✓	✓
NETRA– IPX– CLNT–L5	5–user IPX Gateway Client License	\$300	B	For Netra i systems							
NETRA– IPX– CLNT–L25	25–user IPX Gateway Client License	\$1,375	B	For Netra i systems							
NETRA– IPX– CLNT–L50	50–user IPX Gateway Client License	\$2,500	B	For Netra i systems							
NETRA– NFS–L25	25–user Client RTU for Syntax Totalnet Server software bundled with Netra NFS servers.	\$1,000	A						✓		
NETRA– NFS1.1	Netra NFS SmartServe 1.1 software, factory installed, for the Netra NFS 150 server.	N/C	–						✓		

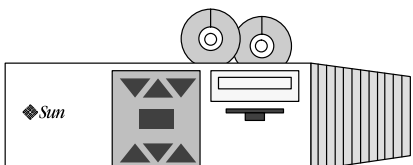
NOTES:

* Maximum discount may apply.

③ 50–68 pin cables are required to connect a UniPack to a 50–pin SCSI Host Adapter or to a Desktop Storage or Disk Pack.

This is not an official Price List. Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.

Sun MediaCenter UltraSPARC Server

			PRODUCT SPECIFICATIONS	
Multiprocessing	Yes			
Data (Video) Streaming Rates Sustained throughput (Mbps) Number of streams at 1.5 / 4.0 Mbps Max. concurrent users at 1.5 / 4.0 Mbps	100 70 / 25 70 / 25			
Base Package Configuration Base System Memory Internal Disk(s) CD-ROM Drive Floppy Drive Tape Drive Ethernet Serial Ports High-Speed Parallel Sun MediaCenter Software / License Solaris Software / License	Ultra Enterprise 2 Model 2170 256MB 2 x 2.1GB 7200 RPM Fast/Wide SCSI-2 644MB SunCD 4 1.44MB Floppy Drive No (100BaseT) / 10BaseT 2 1 Subset Pre-Installed / Server Solaris 2.5.1 Subset Pre-Installed			
System Processor Number of CPUs CPU Clock Speed CPU Type Cache Size on CPU / CPU Module	2 167 MHz UltraSPARC 512KB / 2MB			
Network Interfaces Forward (MPEG Encoded Data) Interface Adapter Adapter Throughput (Mbps) Number of Adapters Back Channel (TCP/IP)	ATM 155 1 ATM or Ethernet	Fast Ethernet 100 2 (1 on-board, 1 adapter) Fast Ethernet or Ethernet		
Media (Video) Storage Total / Net Capacity True VOD Title Capacity (30 min) at 1.5 / 4.0 Mbps Controller Interface Number of Controllers RAID Level Data Integrity / Recover	50.4GB / 42.2GB 124 / 42 Fast/Wide SCSI 2 RAID 4 (parity / striping) 5:1 Parity			
VCR Functions (VOD, NVOD)	NVOD and True VOD			
Media Content Format Video: MPEG-1 Systems Video: MPEG-1 Program and Transport Audio: MPEG 1, Layer 1/2	Yes Yes Yes			

Configuration Available – Model 500 with Two 167-MHz UltraSPARC Processors, Each with 512KB UltraCache:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
SMC-A14-167-500	Sun MediaCenter 500 Base Package, 256MB, 2 x 2.1GB 7200 RPM Internal Fast/Wide SCSI-2 disks, 644MB Internal SunCD 4, 50.4GB RAID-4 storage with 0.8 meter cable.	\$89,995	A

Sun MediaCenter Model 500 Options:

<i>Part Number</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
X5516A	50.4GB (12 x 4.2GB) 7200 RPM SCSI-2 SPARCstorage MultiPack with 68-68 pin SCSI cable. <u>NOTE:</u> Must be added in pairs.	\$18,400	A
X6052A	SPARCstorage DLT4000 tape drive in external desktop enclosure with 50-68 pin SCSI cable.	\$7,100	A
X6253A	4-8GB 4mm DDS-2 Tape UniPack with 68-68 pin SCSI cable.	\$1,475	A
X6071A	140-280GB SPARCstorage DLT4700 AutoLoader in a Desktop Enclosure with SCSI cable.	\$16,000	A
X6282A	12-24GB 4mm DDS-3 Internal Tape Drive	\$2,400	A

GENERAL NOTES:

- Sun MediaCenters are shipped fully configured and will support limited field/customer installed options.
- All internal add-on components must be included on the initial system order.
- All systems ship with the appropriate Solaris 2.x Server License. Systems are delivered with the Sun MediaCenter Software and a customized version of Solaris pre-installed (no CD-ROM media included). Order a Solaris 2.5.1 Server Media Kit separately.
- Solstice Backup and Solstice DiskSuite are not compatible with the Sun MediaCenter Media File System.
- All system orders must include a Localized Power Cord Kit at no charge. Type 5 Country Kits are not available for Sun MediaCenters.

This is not an official Price List. Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.